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1) ORGANIC COMPOUND AND ORGANIC ELECTROLUMINESCENT ELEMENT USING THE SAME

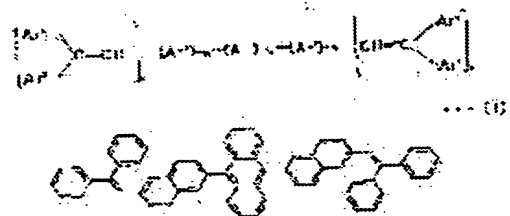
(57)Abstract:

PROBLEM TO BE SOLVED: To obtain both a new organic compound capable of exhibiting a high luminous efficacy in the case of using the compound as a constituent material for an organic electroluminescent element (organic EL element) and the organic EL element using the compound.

SOLUTION: This organic compound is represented by formula I

[Ar1 is a bifunctional group composed of a 6-30C aromatic ring which may contain a substituent or a 4-30C bifunctional heterocyclic group containing at least one kind of hetero atom selected from O, N, S and Si (when both (s) and (t) are 0 and (k) is 1, Ar1 is not 9,10-anthrylene); Ar1 and Ar2 are each independently a 6-30C arylene group which may contain a substituent or a 4-30C bifunctional heterocyclic group containing at least one kind of hetero atom selected from O, N, S and Si (when (s) and (t) are 0,

Ar2 and Ar3 positioned at the end of the compound are each a corresponding monofunctional aromatic group or heterocyclic group), Ar4 to Ar7 are each independently a 6-20C aryl group which may contain a substituent or a 4-30C monofunctional heterocyclic group containing at least one kind of hetero atom selected from O, N, S and Si; (k) is 1 or 2; (m) and (n) are each 1 or 2; (s) and (t) are each 0 or 1], to be concrete, an organic compound of the formula. The organic EL element has at least an organic luminous layer nipped between a pair of electrodes and contains the organic compound.



LEGAL STATUS

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